



RECEIVED  
APR 10 2001  
TECH CENTER 1600/2900

SEQUENCE LISTING

*Sent X*

<110> Hall, Roderick L  
Poll, Christopher T.  
Newton, Benjamin B.  
Taylor, William J.A.

<120> A Method for Accelerating the Rate of Mucociliary Clearance

<130> 98,736

<140> 09/218,913  
<141> 1998-12-22

<160> 71

<170> Microsoft Word 97

<210> 1  
<211> 179  
<212> PRT  
<213> Homo sapien

<400> 1  
Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
165 170 175

Ala Val Ser

<210> 2  
<211> 197

<212> PRT

<213> Homo sapien

<220>

<221> sig\_peptide

<222> 1..18

<400> 2

Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val  
1 5 10 15

Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser  
20 25 30

Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn  
35 40 45

Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly  
50 55 60

Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala  
65 70 75 80

Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala  
85 90 95

Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp  
100 105 110

His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala  
115 120 125

Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val  
130 135 140

Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn  
145 150 155 160

Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg  
165 170 175

Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu  
180 185 190

Ala Gly Ala Val Ser  
195

<210> 3

<211> 153

<212> PRT

<213> Homo sapien

<400> 3

Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala  
1 5 10 15

Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu  
20 25 30

Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys  
35 40 45

Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly  
 50 55 60

Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala  
 65 70 75 80

Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr  
 85 90 95

Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser  
 100 105 110

Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe  
 115 120 125

Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu  
 130 135 140

Ala Cys Met Leu Arg Cys Phe Arg Gln  
 145 150

<210> 4  
 <211> 58  
 <212> PRT  
 <213> Homo sapien

<400> 4  
 Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala  
 1 5 10 15

Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu  
 20 25 30

Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys  
 35 40 45

Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55

<210> 5  
 <211> 51  
 <212> PRT  
 <213> Homo sapien

<400> 5  
 Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg  
 1 5 10 15

Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly  
 20 25 30

Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu  
 35 40 45

Lys Lys Cys  
 50

<210> 6  
 <211> 58  
 <212> PRT  
 <213> Homo sapien

<400> 6  
 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala  
 1 5 10 15  
 Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn  
 20 25 30  
 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu  
 35 40 45  
 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln  
 50 55  
  
 <210> 7  
 <211> 51  
 <212> PRT  
 <213> Homo sapien  
  
 <400> 7  
 Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg  
 1 5 10 15  
 Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly  
 20 25 30  
 Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met  
 35 40 45  
 Leu Arg Cys  
 50  
  
 <210> 8  
 <211> 92  
 <212> PRT  
 <213> Homo sapien  
  
 <400> 8  
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
 1 5 10 15  
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
 20 25 30  
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
 35 40 45  
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55 60  
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65 70 75 80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser  
 85 90  
  
 <210> 9  
 <211> 708  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature

<222> 679..708  
 <223> /note= "n at positions 622, 679, 707 is any nucleic acid"  
 <400> 9  
 ggccgggtcg tttctcgccct ggctgggatc gctgctcctc tctgggtcc tggcggccga 60  
 ccgagaacgc agcatccacg acttctgcct ggtgtcaag gtgggtggca gatgccggc 120  
 ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg 180  
 gggctgtgac ggaaacacgca ataattacct gaccaaggag gagtcctca agaaatgtgc 240  
 cactgtcaca gagaatgcca cgggtgacct ggccaccagc aggaatgcag cgattcctc 300  
 tgtcccaagt gctcccagaa ggcaggattc tgaagaccac tccagcgata tttcaacta 360  
 tgaagaatac tgcaccgcca acgcagtcac tggccttgc cgtgcaccc tccacgctg 420  
 gtactttgac gtggagagga actcctgcaa taacttcata tatggaggct gccggggcaa 480  
 taagaacacg taccgctctg aggaggcctg catgtccgc tgcttccgccc agcaggagaa 540  
 tcctccctg cccctggct caaagggtggt gttctggcc gggctgttt cgtgtggtg 600  
 ttgatcctt tcctggggag cncatggt cttactgatt cgggtggca aggaggaacc 660  
 aggagcgtgc cctcggnanc gtctggagct tcggagatga caagggnnt 708  
 <210> 10  
 <211> 235  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <221> peptide  
 <222> 1..235  
 <223> /note= "Xaa at positions 198, 201, 226, and 233 are unknown amino acids"  
 <400> 10  
 Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val  
 1 5 10 15  
 Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser  
 20 25 30  
 Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn  
 35 40 45  
 Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly  
 50 55 60  
 Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala  
 65 70 75 80  
 Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala  
 85 90 95  
 Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp  
 100 105 110  
 His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala

115	120	125
Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val		
130	135	140
Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn		
145	150	155
Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg		
165	170	175
Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu		
180	185	190
Ala Gly Ala Val Ser Xaa Trp Cys Xaa Ser Phe Ser Trp Gly Ala Ser		
195	200	205
Met Val Leu Leu Ile Pro Gly Gly Lys Glu Glu Pro Gly Ala Cys Pro		
210	215	220
Ala Xaa Arg Leu Glu Leu Arg Arg Xaa Gln Gly		
225	230	235
<210> 11		
<211> 179		
<212> PRT		
<213> Homo sapien		
<220>		
<221> peptide		
<222> 1..170		
<223> /note= "Xaa at positions 8, 17, 19, 21-26, 40, 42, 45-47, 52, 64, 103, 112, 114, 116-121, 135, 137, 140-142, 147, and 159 is any amino acid residue"		
<400> 11		
Ala Asp Arg Glu Arg Ser Ile Xaa Asp Phe Cys Leu Val Ser Lys Val		
1	5	10
Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Trp Trp Tyr Asn Val Thr		
20	25	30
Asp Gly Ser Cys Gln Leu Phe Xaa Tyr Xaa Gly Cys Xaa Xaa Xaa Ser		
35	40	45
Asn Asn Tyr Xaa Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Xaa		
50	55	60
Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp		
65	70	75
Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser		
85	90	95
Ser Asp Met Phe Asn Tyr Xaa Glu Tyr Cys Thr Ala Asn Ala Val Xaa		
100	105	110
Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Trp Tyr Phe Asp Val Glu Arg		
115	120	125
Asn Ser Cys Asn Asn Phe Xaa Tyr Xaa Gly Cys Xaa Xaa Xaa Lys Asn		
130	135	140

Ser Tyr Xaa Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Xaa Gln  
 145                            150                            155                            160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 165                            170                            175  
 Ala Val Ser

```

<210> 12
<211> 393
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> 390..391
<223> /note= "residue 361 is any nucleic acid"

<220>
<221> misc_feature
<222> 390..391
<223> /note= "residue 367 is any nucleic acid"

<220>
<221> misc_feature
<222> 384..385
<223> /note= "residue 384 is any nucleic acid"

<220>
<221> misc_feature
<222> 367..368
<223> /note= "residue 390 is any nucleic acid"

<400> 12
ggccgggtcg tttctcgctt ggctgggatc gctgctcctc tctgggtcc tggccggccg         60
accgagaacg cagcatccac gacttctgcc tggtgtcgaa ggtgggtggc agattccggg         120
cctccatgcc taggtggtgg tacaatgtca ctgacggatc ctgccagctg tttgtgtatg         180
ggggctgtga cgaaaaacagc aataattacc tgaccaagga ggagtgcctc aagaaaatgtg         240
ccactgtcac agagaatgcc acgggtgacc tggccaccag caggaatgca gcggattccct         300
ctgtcccaag tgctcccaga aggcaggatt cttgaagacc acttcagcga tatgtttcaa         360
ntattgnaag aataattgca ccgncaacgn att                                            393

<210> 13
<211> 130
<212> PRT
<213> Homo sapien

<220>
<221> Region
<222> 1..18
<223> /label= signal peptide

<220>
<221> Peptide
<222> 111..130

```

<223> /note= "Xaa at positions 111, 120, 122, 128, and 130 represents a nonsense or stop codon"

<400> 13  
Pro Gly Arg Phe Ser Pro Gly Trp Asp Arg Cys Ser Ser Leu Gly Ser  
1 5 10 15  
  
Trp Pro Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser  
20 25 30  
  
Lys Val Val Gly Arg Glu Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn  
35 40 45  
  
Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly  
50 55 60  
  
Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala  
65 70 75 80  
  
Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala  
85 90 95  
  
Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Xaa Arg  
100 105 110  
  
Pro Leu Gln Arg Tyr Val Ser Xaa Ile Xaa Arg Ile Ile Ala Pro Xaa  
115 120 125  
  
Thr Xaa  
130

<210> 14

<211> 511

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> 425..510

<223> /note= "n at positions 425, 482, and 510 is any nucleic acid"

<400> 14

gcaataatta cctgaccaag .gaggagtgcc tcaagaaaatg tgccactgtc acagagaatg 60  
ccacgggtga cctggccacc agcaggaatg cagcgattc ctctgtccca agtgctccc 120  
gaaggcagga ttctgaagac cactccagcg atatgttcaa ctatgaagaa tactgcaccg 180  
ccaacgcagt cactgggcct tgccgtgcat cttccccacg ctggtaactt gacgtggaga 240  
ggaactcctg caataacttc atctatggag gctgccgggg caataagaac agtacccgct 300  
ctgaggaggc ctgcatgctc cgctgcttcc gccagcagga gaatcctccc ctgccccttg 360  
gctcaaaggt ggtggttctg gccggggctg tttcgtatg gtgttgcgttcc ttttcctggg 420  
gagcnccat ggtcttactg attccgggtg gcaaggagga accaggagcg tgccctgcgg 480  
ancgtctgga gcttcggaga tgacaagggn t 511

<210> 15

<211> 169

<212> PRT  
 <213> Homo sapien  
  
 <220>  
 <221> peptide  
 <222> 1..169  
 <223> /note= "Xaa at positions 2, 23, 132, 160, and 167 represent a nonsense or stop codon"  
  
 <400> 15  
 Gln Xaa Leu Pro Asp Gln Gly Gly Val Pro Gln Glu Met Cys His Cys  
 1 5 10 15  
  
 His Arg Glu Cys His Gly Xaa Pro Gly His Gln Gln Glu Cys Ser Gly  
 20 25 30  
  
 Phe Leu Cys Pro Lys Ser Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 35 40 45  
  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 50 55 60  
  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 65 70 75 80  
  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 85 90 95  
  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 100 105 110  
  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 115 120 125  
  
 Ala Val Ser Xaa Trp Cys Xaa Ser Phe Ser Trp Gly Ala Ser Met Val  
 130 135 140  
  
 Leu Leu Ile Pro Gly Gly Lys Glu Glu Pro Gly Ala Cys Pro Ala Xaa  
 145 150 155 160  
  
 Arg Leu Glu Leu Arg Arg Xaa Gln Gly  
 165  
  
 <210> 16  
 <211> 431  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> 1..430  
 <223> /note= "n at positions 3, 11, 12, 17, 51 and 429 represent any nucleic acid"  
  
 <400> 16  
 gcngcgcgtt nntcgcntgc tgggatcgct gctgcacctc tctggggtcg nggcggccga 60  
 ccgagaacgc agcatccacg acttctgcct ggtgtcgaag gtgggtggca gatgccggc 120  
 ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg 180  
 gggctgtgac ggaaacagca ataattacct gaccaaggag gagtgccctca agaaatgtgc 240

cactgtcaca gagaatgcc a cgggtgaccc ggccaccagg aggaatgcag cgatttcctc 300  
 tgtcccaagt gctcccagaa ggcaggattc ttgaagacca cttagcgat atgttcaact 360  
 atgaagaata ctggcaccgc caacgcattc actgggcctg cgtgcacgc tcccacgctg 420  
 gtactttgnc g 431

<210> 17  
 <211> 424  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> 1..424  
 <223> /note= "n at positions 6, 310 and 408 represent any nucleic acid"

<400> 17  
 tgggantcgc tgctcctctc tggggcctg gcggccgacc gagaacgcag catccacgac 60  
 ttctgcctgg tgcgaaggt ggtggcaga tgccggcct ccatgcctag gtgggtggta 120  
 aatgtcaactg acggatcctg ccagctgtt gtgtatgggg gctgtgacgg aaacagcaat 180  
 aattaccta ccaaggagga gtgcctcaag aaatgtgcca ctgtcacaga gaatgccacg 240  
 ggtgacctgg ccaccagcag gaatgcagcg gattcctctg tcccaagtgc tcccaagg 300  
 caggattctn gaagaccact ccagcgatat gttcaactat gaagaatact gcaccgcaa 360  
 cgcagtcaact gggccttgcg tggaaatcctt tcccacgctg gnaatttnga cggtgagaag 420  
 gaac 424

<210> 18  
 <211> 57  
 <212> PRT  
 <213> Unknown

<220>  
 <221>  
 <222>  
 <223> /note= "Tissue factor pathway inhibitor precursor 1"

<400> 18  
 His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala Ile  
 1 5 10 15

Met Lys Arg Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu Phe  
 20 25 30

Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu Glu  
 35 40 45

Glu Cys Lys Lys Met Cys Thr Arg Asp  
 50 55

<210> 19  
 <211> 57  
 <212> PRT

<213> Unknown

<220>

<223> /note= "Tissue factor pathway inhibitor precursor 1"

<400> 19  
Pro Asp Phe Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr  
1 5 10 15

Ile Thr Arg Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe  
20 25 30

Lys Tyr Gly Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu  
35 40 45

Glu Cys Lys Asn Ile Cys Glu Asp Gly  
50 55

<210> 20  
<211> 57  
<212> PRT  
<213> Unknown

<220>

<223> /note= "Tissue factor pathway inhibitor precursor"

<400> 20  
Pro Ser Trp Cys Leu Thr Pro Ala Asp Arg Gly Leu Cys Arg Ala Asn  
1 5 10 15

Glu Asn Arg Phe Tyr Tyr Asn Ser Val Ile Gly Lys Cys Arg Pro Phe  
20 25 30

Lys Tyr Ser Gly Cys Gly Asn Glu Asn Asn Phe Thr Ser Lys Gln  
35 40 45

Glu Cys Leu Arg Ala Cys Lys Lys Gly  
50 55

<210> 21  
<211> 57  
<212> PRT  
<213> Unknown

<220>

<223> /note= "Tissue factor pathway inhibitor precursor 2"

<400> 21  
Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu  
1 5 10 15

Leu Leu Arg Tyr Tyr Tyr Arg Tyr Arg Thr Gln Ser Cys Arg Gln Phe  
20 25 30

Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu  
35 40 45

Ala Cys Asp Asp Ala Cys Trp Arg Ile  
50 55

<210> 22  
<211> 57

<212> PRT  
<213> Unknown

<220>  
<223> /note= "Tissue factor pathway inhibitor precursor 2"

<400> 22  
Pro Ser Phe Cys Tyr Ser Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn  
1 5 10 15  
  
Val Thr Arg Tyr Tyr Phe Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe  
20 25 30  
  
Thr Tyr Thr Gly Cys Gly Asn Asn Asp Asn Asn Phe Val Ser Arg Glu  
35 40 45  
  
Asp Ser Lys Arg Ala Cys Ala Lys Ala  
50 55

<210> 23  
<211> 57  
<212> PRT  
<213> Unknown

<220>  
<223> /note= "Amyloid Precursor Protein homologue"

<400> 23  
Lys Ala Val Cys Ser Gln Glu Ala Met Thr Gly Pro Cys Arg Ala Val  
1 5 10 15  
  
Met Pro Arg Thr Thr Phe Asp Leu Ser Lys Gly Lys Cys Val Arg Phe  
20 25 30  
  
Ile Thr Gly Gly Cys Gly Asn Arg Asn Asn Phe Glu Ser Glu Asp  
35 40 45  
  
Tyr Cys Met Ala Val Cys Lys Ala Met  
50 55

<210> 24  
<211> 58  
<212> PRT  
<213> Unknown

<220>  
<223> /note= "Aprotinin"

<400> 24  
Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala  
1 5 10 15  
  
Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr  
20 25 30  
  
Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala  
35 40 45  
  
Glu Asp Cys Met Arg Thr Cys Gly Gly Ala  
50 55

<210> 25

<211> 51  
 <212> PRT  
 <213> Unknown

<220>  
 <223> /note= "Inter alpha-trypsin inhibitor precursor"

<400> 25  
 Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys Met Gly Met Thr Ser Arg  
 1               5               10               15

Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys Glu Thr Phe Gln Tyr Gly  
 20               25               30

Gly Cys Met Gly Asn Gly Asn Asn Phe Val Thr Glu Lys Glu Cys Leu  
 35               40               45

Gln Thr Cys  
 50

<210> 26  
 <211> 57  
 <212> PRT  
 <213> Unknown

<220>  
 <223> /note= "Inter alpha-trypsin inhibitor precursor"

<400> 26  
 Val Ala Ala Cys Asn Leu Pro Ile Val Arg Gly Pro Cys Arg Ala Phe  
 1               5               10               15

Ile Gln Leu Trp Ala Phe Asp Ala Val Lys Gly Lys Cys Val Leu Phe  
 20               25               30

Pro Tyr Gly Gly Cys Gln Gly Asn Gly Asn Lys Phe Tyr Ser Glu Lys  
 35               40               45

Glu Cys Arg Glu Tyr Cys Gly Val Pro  
 50               55

<210> 27  
 <211> 57  
 <212> PRT  
 <213> Unknown

<220>  
 <223> /note= "Amyloid precursor protein"

<400> 27  
 Glu Val Cys Cys Ser Glu Gln Ala Glu Thr Gly Pro Cys Arg Ala Met  
 1               5               10               15

Ile Ser Arg Trp Tyr Phe Asp Val Thr Glu Gly Lys Cys Ala Pro Phe  
 20               25               30

Phe Tyr Gly Gly Cys Gly Asn Arg Asn Asn Phe Asp Thr Glu Glu  
 35               40               45

Tyr Cys Met Ala Val Cys Gly Ser Ala  
 50               55

<210> 28  
 <211> 51  
 <212> PRT  
 <213> Unknown

<220>  
 <223> /note= "Collagen alpha-3 (VI) precursor"

<400> 28  
 Cys Lys Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys  
 1 5 10 15

Trp Tyr Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly  
 20 25 30

Gly Cys Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu  
 35 40 45

Lys Val Cys  
 50

<210> 29  
 <211> 57  
 <212> PRT  
 <213> Unknown

<220>  
 <223> /note= "HKI-B9"

<400> 29  
 Pro Asn Val Cys Ala Phe Pro Met Glu Lys Gly Pro Cys Gln Thr Tyr  
 1 5 10 15

Met Thr Arg Trp Phe Phe Asn Phe Glu Thr Gly Glu Cys Glu Leu Phe  
 20 25 30

Ala Tyr Gly Gly Cys Gly Gly Asn Ser Asn Asn Phe Leu Arg Lys Glu  
 35 40 45

Lys Cys Glu Lys Phe Cys Lys Phe Thr  
 50 55

<210> 30  
 <211> 46  
 <212> DNA  
 <213> S. cerevisiae

<400> 30  
 gccaaacctg gataaaagat atgaagaata ctgcaccgcc aacgca 46

<210> 31  
 <211> 35  
 <212> DNA  
 <213> S. cerevisiae

<400> 31  
 ggggatcctc actgctggcg gaagcagcgg agcat 35

<210> 32  
 <211> 206  
 <212> DNA  
 <213> Homo sapien

```

<220>
<223> /note= "cDNA of human Bikunin protein fragment"

<400> 32
ccaagcttgg ataaaagata tgaagaatac tgcaccgcca acgcagtcac tgggccttgc      60
cgtgcacccct tcccacgctg gtactttgac gtggagagga actcctgcaa taacttcatc      120
tatggaggct gccggggcaa taagaacagc taccgctctg aggaggcctg catgctccgc      180
tgcttccgcc agcagtgagg atcccc                           206

<210> 33
<211> 28
<212> DNA
<213> Homo sapien

<400> 33
cgaagcttca tctccgaagc tccagacg                           28

<210> 34
<211> 31
<212> DNA
<213> Homo sapien

<400> 34
aggatctaga caataattac ctgaccaagg a                           31
<210> 35
<211> 36
<212> DNA
<213> Homo sapien

<400> 35
ggtagttaggg ccgggtcggt tctcgctgg ctggga                           36
<210> 36
<211> 19
<212> DNA
<213> Homo sapien

<400> 36
cacctgatcg cgagacccc                           19
<210> 37
<211> 19
<212> DNA
<213> Homo sapien

<400> 37
gattttaggtg acactatag                           19
<210> 38
<211> 20
<212> DNA
<213> Homo sapien

<400> 38
taatacgact cactataggg                           20
<210> 39

```

<211> 22		
<212> DNA		
<213> Homo sapien		
<400> 39		
ttacctgacc aaggaggagt gc		22
<210> 40		
<211> 23		
<212> DNA		
<213> Homo sapien		
<400> 40		
aatccgctgc attcctgctg gtg		23
<210> 41		
<211> 20		
<212> DNA		
<213> Homo sapien		
<400> 41		
cagtcactgg gccttgcgt		20
<210> 42		
<211> 105		
<212> DNA		
<213> Homo sapien		
<400> 42		
gaaggggataa gcttgataa aagatataaa gaataactgca ccgccaacgc agtcactgg		60
ccttgcgtg catccttccc acgctggta tttgacgtgg agagg		105
<210> 43		
<211> 129		
<212> DNA		
<213> Homo sapien		
<400> 43		
cgcggatccc tactggcgga agcagcggag catgcaggcc tcctcagagc ggttagctgtt		60
cattattgccc cggcagcctc catagatgaa gttattgcag gagttcctct ccacgtaaa		120
gtaccagcg		129
<210> 44		
<211> 207		
<212> DNA		
<213> Homo sapien		
<400> 44		
gaaggggataa gcttgataa aagatataaa gaataactgca ccgccaacgc agtcactgg		60
ccttgcgtg catccttccc acgctggta tttgacgtgg agaggaactc ctgcaataac		120
ttcatctatg gaggctgccg gggcaataag aacagctacc gctctgagga ggcctgcatg		180
ctccgctgct tccgccagta gggatcc		207
<210> 45		
<211> 248		
<212> PRT		

<213> Homo sapien

<220>

<221> Region

<222> 1..18

<223> /label= signal peptide

<400> 45

Met Leu Arg Ala Glu Ala Asp Gly Val Ser Arg Leu Leu Gly Ser Leu  
1 5 10 15

Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp  
20 25 30

Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro  
35 40 45

Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr  
50 55 60

Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys  
65 70 75 80

Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala  
85 90 95

Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg  
100 105 110

Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr  
115 120 125

Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg  
130 135 140

Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly  
145 150 155 160

Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met  
165 170 175

Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser  
180 185 190

Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe  
195 200 205

Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln  
210 215 220

Glu Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln  
225 230 235 240

Leu Val Lys Asn Thr Tyr Val Leu  
245

<210> 46

<211> 213

<212> PRT

<213> Homo sapien

<400> 46

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
 1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
 20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
 35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 165 170 175

Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
 180 185 190

Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
 195 200 205

Trp Ser Phe Gly Asp  
 210

<210> 47  
 <211> 240  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> Region  
 <222> 1..18  
 <223> /label= signal peptide

<400> 47  
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu  
 1 5 10 15

Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg  
 20 25 30

Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg  
 35 40 45

Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln  
 50 55 60

Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr  
 65 70 75 80

Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr  
 85 90 95

Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser  
 100 105 110

Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn  
 115 120 125

Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala  
 130 135 140

Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn  
 145 150 155 160

Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu  
 165 170 175

Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu  
 180 185 190

Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val  
 195 200 205

Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala  
 210 215 220

Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val Trp Ser Phe Gly Asp  
 225 230 235 240

<210> 48  
 <211> 225  
 <212> PRT  
 <213> Homo sapiens

<400> 48  
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
 1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
 20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
 35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 115 120 125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 130 135 140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145 150 155 160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 165 170 175  
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
 180 185 190  
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
 195 200 205  
 Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val  
 210 215 220  
 Leu  
 225  
 <210> 49  
 <211> 252  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <221> Region  
 <222> 1..18  
 <223> /label= signal peptide  
 <400> 49  
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu  
 1 5 10 15  
 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg  
 20 25 30  
 Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg  
 35 40 45  
 Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln  
 50 55 60 65  
 Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr  
 65 70 75 80  
 Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr  
 85 90 95  
 Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser  
 100 105 110  
 Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn  
 115 120 125  
 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala  
 130 135 140

Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn  
 145                    150                    155                    160  
 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu  
 165                    170                    175  
 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu  
 180                    185                    190  
 Pro Leu Gly Ser Lys Val Val Leu Ala Gly Leu Phe Val Met Val  
 195                    200                    205  
 Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala  
 210                    215                    220  
 Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp  
 225                    230                    235                    240  
 Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val Leu  
 245                    250  
 <210> 50  
 <211> 146  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <223> /note= "Human Bikunin protein fragment"  
 <400> 50  
 Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg  
 1                    5                        10                    15  
 Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly  
 20                    25                        30  
 Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu  
 35                    40                        45  
 Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr  
 50                    55                        60  
 Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln  
 65                    70                        75                    80  
 Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys  
 85                    90                        95  
 Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp  
 100                    105                      110  
 Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly  
 115                    120                      125  
 Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu  
 130                    135                      140  
 Arg Cys  
 145  
 <210> 51

<211> 170

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 51

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys  
165 170

<210> 52

<211> 170

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 52

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65                   70                   75                   80  
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 85                   90                   95  
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 100                 105                 110  
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 115                 120                 125  
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 130                 135                 140  
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145                 150                 155                 160  
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys  
 165                 170  
 <210> 53  
 <211> 27  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <223> /note= "Signal peptide of Human Bikunin protein"  
 <400> 53  
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu  
 1                 5                     10                 15  
 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala  
 20                 25  
 <210> 54  
 <211> 23  
 <212> PRT  
 <213> Homo sapien  
 <220>  
 <223> Human Bikunin protein fragment  
 <400> 54  
 Met Leu Arg Ala Glu Ala Asp Gly Asn Ser Arg Leu Leu Gly Ser Leu  
 1                 5                     10                 15  
 Leu Leu Ser Gly Val Leu Ala  
 20  
 <210> 55  
 <211> 102  
 <212> DNA  
 <213> Artificial sequence  
 <220>  
 <223> /note= "Oligomer for preparing expression construct"  
 <400> 55  
 gaaggggataa gcttggataa aagagaagaa tactgtactg ctaatgctgt tactggtcca     60

tgttagagctt cttttccaag atggtaacttt gatgttggaaa ga	102
<210> 56	
<211> 129	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> Oligomer for preparing expression construct	
<400> 56	
actggatcct cattggcgaa aacatctcaa catacaggct tcttcagatc tgtaagaatt	60
tttattacct ctacaaccac cgtaaaataaaa attattacaa gaatttcttt caacatcaaa	120
gtaccatct	129
<210> 57	
<211> 108	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> /note= "Oligomer for preparing expression construct"	
<400> 57	
gaaggggataa gcttggataa aagaaattac gaagaatact gtactgctaa tgctgttact	60
ggtccatgta gagttcttt tccaagatgg tacttgatg ttgaaaga	108
<210> 58	
<211> 117	
<212> DNA	
<213> Artificial sequence	
<220>	
<223> /note= "Oligomer for preparing expression construct"	
<400> 58	
gaaggggataa gcttggataa aagagatatg tttaattacg aagaataactg tactgctaatt	60
gctgttactg gtccatgtag agttctttt ccaagatgg actttgatgt tgaaaga	117
<210> 59	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 59	
cacctgatcg cgaagacccc	20
<210> 60	
<211> 23	
<212> DNA	
<213> Homo sapiens	
<400> 60	
ctggcgaaag cagcggagca tgc	23
<210> 61	
<211> 45	
<212> DNA	

<213> Artificial sequence

<220>

<223> /note= "Oligomer for preparing Bikunin expression construct"

<400> 61

cgcgtctcg ctgacctggc cctgcagatg ggcacgtgt gcgaa

45

<210> 62

<211> 60

<212> DNA

<213> Artificial sequence

<220>

<223> /note= "Oligomer for preparing Bikunin construct"

<400> 62

ctgccccttg gctcaaaggta ggaagatctt ccccccgggg gggtggttct ggccgggctg

60

<210> 63

<211> 14

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 63

Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Pro Leu Gly

1 5 10

<210> 64

<211> 20

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 64

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val

1 5 10 15

Val Gly Arg Cys  
20

<210> 65

<211> 20

<212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 65

Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys

1 5 10 15

Arg Ala Ser Phe  
20

<210> 66

<211> 10

<212> PRT  
<213> Homo sapien

<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 66  
Pro Tyr Val Asp Gly Ser Gln Phe Tyr Gly  
1 5 10

<210> 67  
<211> 55  
<212> PRT  
<213> Homo sapien

<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 67  
Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu  
1 5 10 15

Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu  
20 25 30

Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu  
35 40 45

Val Lys Asn Thr Tyr Val Leu  
50 55

<210> 68  
<211> 43  
<212> PRT  
<213> Homo sapien

<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 68  
Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu  
1 5 10 15

Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu  
20 25 30

Arg Ala Leu Arg Thr Val Trp Ser Phe Gly Asp  
35 40

<210> 69  
<211> 55  
<212> PRT  
<213> Homo sapien

<220>  
<223> /note= "Human Bikunin protein fragment"

<400> 69  
Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu  
1 5 10 15

Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu

20

25

30

Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu  
 35                                  40                                  45

Val Lys Asn Thr Tyr Val Leu  
 50                                  55

<210> 70  
 <211> 213  
 <212> PRT  
 <213> Homo sapien

<220>  
 <223> /note= "Human Bikunin protein fragment"

<400> 70  
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
 1                                 5                                   10                           15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
 20                                 25                                 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
 35                                 40                                 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
 50                                 55                                 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
 65                                 70                                 75                           80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
 85                                 90                                 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
 100                                105                                 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
 115                                120                                 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
 130                                135                                 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
 145                                150                                 155                           160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
 165                                170                                 175

Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
 180                                185                                 190

Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
 195                                200                                 205

Trp Ser Phe Gly Asp  
 210

<210> 71  
 <211> 225  
 <212> PRT

<213> Homo sapien

<220>

<223> /note= "Human Bikunin protein fragment"

<400> 71

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val  
1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr  
20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser  
35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val  
50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp  
65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser  
85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr  
100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg  
115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn  
130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln  
145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly  
165 170 175

Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr  
180 185 190

Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val  
195 200 205

Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val  
210 215 220

Leu  
225